## NASA TECH BRIEF



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## Materials Data Handbook, Aluminum Alloy 7075

A comprehensive compilation of technical data on aluminum alloy 7075 (nominal composition: 90 Al, 5.6 Zn, 2.5 Mg, 1.6 Cu, 0.3 Cr) has been presented in a handbook prepared by the Department of Chemical Engineering and Metallurgy, Syracuse University Research Institute, under contract to Marshall Space Flight Center.

This "Materials Data Handbook, Aluminum Alloy 7075" includes data on the properties of the alloy at cryogenic, ambient, and elevated temperatures, and other pertinent engineering information required for the design and fabrication of components and equipment utilizing this alloy. The handbook information is arranged in twelve chapters under the following headings:

- 1. General Information
- 2. Procurement Information
- 3. Metallurgy
- 4. Production Practices
- 5. Manufacturing Practices

- 6. Space Environment Effects
- 7. Static Mechanical Properties
- 8. Dynamic and Time Dependent Properties
- 9. Physical Properties
- 10. Corrosion Resistance and Protection
- 11. Surface Treatments
- 12. Joining Techniques

## Note

A copy of the "Materials Data Handbook, Aluminum Alloy 7075", edited by John Sessler and Volker Weiss, may be obtained from:

Technology Utilization Officer Marshall Space Flight Center Huntsville, Alabama 35812 Reference: B67-10301

Source: John Sessler and Volker Weiss
of Syracuse University Research Institute
under contract to
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